

What is claimed is:

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1. A method for storing data in recording media using an information storage apparatus which has a plurality of rotation modes of said recording media, comprising:

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a step of formatting said recording media in a first rotation mode;

a step of stopping, in response to a request for storing data in said recording media, formatting of said recording media;

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a step of setting said recording media in a second rotation mode that is suitable for storing data in said recording media;

a step of storing data in said recording media in said second rotation mode;

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a step of setting, in response to an end of storing data in said recording media, said recording media in said first rotation mode; and

a step of resuming of formatting said recording media in said first rotation mode.

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2. The method for storing data as claimed in  
5 claim 1, wherein said recording media formatted in  
said first rotation mode is rotated at a maximum  
rotating speed at which said information storage  
apparatus can store data in said recording media.

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3. The method for storing data as claimed in  
claim 1, wherein said first rotation mode is a  
15 constant linear velocity mode.

20 4. The method for storing data as claimed in  
claim 1, wherein said first rotation mode is a zone  
constant linear velocity mode.

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5. The method for storing data as claimed in claim 1, further comprising a step of measuring time, in response to an end of storing data in said recording media, wherein said step of resuming of formatting said recording media is not performed until a predetermined period of time passes.

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6. The method for storing data as claimed in claim 1, further comprising a step of measuring time, in response to an end of storing data in said recording media, wherein formatting said recording media is resumed in said second rotation mode before a predetermined period of time passes.

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7. The method for storing data as claimed in claim 6, wherein after said predetermined period of time passes, said recording media is set in said first rotation mode.

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5           8. The method for storing data as claimed in  
claim 1, wherein said recording media is a rewritable  
optical disc.

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9. An information storage apparatus having a  
plurality of rotation modes of recording media,  
comprising:

15           a motor which rotates said recording media  
in a rotation mode; and

20           a controller which formats said recording  
media in a first rotation mode, stops, in response to  
a request for storing data in said recording media,  
formatting said recording media, sets the recording  
media in a second rotation mode that is suitable for  
storing data, stores data in said recording media in  
said second rotation mode, sets, in response to an  
end of storing data in said recording media, the  
25   recording media in said first rotation mode, and

resumes formatting the recording media in said first rotation mode.

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10. The information storage apparatus as claimed in claim 9, wherein said recording media formatted in said first rotation mode is rotated at a maximum rotational speed at which said information storage apparatus can store data in said recording media.

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11. The information storage apparatus as claimed in claim 9, wherein said first rotation mode is a constant linear velocity mode.

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12. The information storage apparatus as claimed in claim 9, wherein said first rotation mode

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is a zone constant linear velocity mode.

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13. The information storage apparatus as claimed in claim 9, further comprising a timer which starts in response to an end of storing data in said recording media, wherein said controller resumes  
10 formatting said recording media after a predetermined period of time passes.

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14. The information storage apparatus as claimed in claim 9, further comprising a timer which starts in response to an end of storing data in said recording media, wherein said controller resumes  
20 formatting said recording media in said second rotation mode after a predetermined period of time passes.

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15. The information storage apparatus as  
claimed in claim 14, wherein after said predetermined  
period of time passes, said recording media is set in  
5 said first rotation mode.

10 16. The information storage apparatus as  
claimed in claim 9, wherein said recording media is a  
rewritable optical disc.

15 17. An information processing apparatus  
comprising the information storage apparatus as  
claimed in claim 9.

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18. A computer program for storing data in  
25 rewritable recording media that is to be installed in

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a digital computer having an information storage apparatus which has a plurality of rotation modes of recording media, comprising:

5 a step of formatting said recording media in a first rotation mode;

a step of stopping, in response to a request for storing data in said recording media, formatting of said recording media;

10 a step of setting said recording media in a second rotation mode that is suitable for storing data;

a step of storing data in said recording media in said second rotation mode;

15 a step of setting, in response to an end of storing data in said recording media, said recording media in said first rotation mode; and

a step of resuming of formatting said recording media in said first rotation mode.

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